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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/004,377		10/22/2001	Kenneth J. Galipeau	14113.57.1.1	9767
21912	7590	06/23/2005		EXAM	INER
VAN PELT, YI & JAMES LLP 10050 N. FOOTHILL BLVD #200				LE, DIEU MINH T	
CUPERTING				ART UNIT	PAPER NUMBER
	•			2114	

DATE MAILED: 06/23/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summary	10/004,377	GALIPEAU ET AL.				
omee Action Gammary	Examiner	Art Unit				
The MAILING DATE of this communication ap	Dieu-Minh Le	2114				
Period for Reply	pears on the cover sheet with	Title correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reg. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statul Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	. 136(a). In no event, however, may a repoly within the statutory minimum of thirty (I will apply and will expire SIX (6) MONTHE, cause the application to become ABAI	oly be timely filed (30) days will be considered timely. HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 07.	<u>April 2005</u> .					
2a) This action is FINAL . 2b) ☑ Thi	· · · · · · · · · · · · · · · · · · ·					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ☐ Claim(s) 31-42 is/are pending in the application 4a) Of the above claim(s) 1-30 is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 31-42 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/	vn from consideration.	·				
Application Papers						
9) The specification is objected to by the Examin	ner.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🔲 Interview Su	immary (PTC-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)	/Mail Date				
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date J.S. Patent and Trademark Office	5) Notice of Info 6) Other:	ormal Patent Application (PTO-152)				

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DETAILED ACTION

1. This Office Action is in response to the RCE filed April 07, 2005 in application 10/004,377.

- 2. Claims 1-30 have been cancelled; claims 31-40 are again presented for examination, claims 41-42 have been added.
- 3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 103

4. Claims 31-42 are again rejected under 35 U.S.C. § 103(a) as being unpatentable Funk (US Patent 5,793,497) in view of Nelson et al. (US Patent 5,928,367 hereafter referred to as Nelson).

As per claim 31:

Funk substantially teaches the invention. Funk teaches:

- a method for data protection [abstract, col. 5, lines 29-33 and col. 6, lines 1-11] comprising:
- intercepting change information representing a change made by a process running on a computer system to a file on the computer system [col. 1, lines 62 through col. 2, line

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3, col. 2, lines 52-55, col. 3, lines 59-67, and col. 8, lines 50-53];

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- storing the change information on a log file [col. 3, lines 59-67; col. 4, lines 39-52; col. 6, lines 12-22; and col. 9, lines 13-22];
- transmitting the contents of the log file through a network (i.e., updating the information in the information database and generating a file corresponding to the customer based on information in the customer record and the dynamically updated information) [[fig. 1, col. 2, lines 14-28 and col. 2, lines 36-39].

Funk does not explicitly teach:

- the transmission is initiated by the computer system substantially concurrently with a time the change to the file occurs.

However, Funk does disclose capability of:

- a method and apparatus for delivering and modifying information electronically [abstract, col. 2, lines 14-27] comprising:
- a connectivity among memory, processor, end-user terminals (i.e., remote as well as local) via LAN and

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Internet (WAN) environment [fig. 1, col. 3, lines 35
through col. 4, lines 25];

- information exchanging and dynamically updating between source and destination (i.e., end user terminals) via a network in a real-time [col. 5 lines 43-51];
- information modification and editing [col. 6, line 64 through col. 7, line20];
- file generating, updating information to and from database, and transmitting data via a network [col. 2, lines 14-41].
 - database and generating a file corresponding to the

 customer based on information in the customer record and

 the dynamically updated information [col. 2, lines 36-39];

 means for responsive to the message from the

 predetermined customer for modifying a customer record

 responding to the predetermined customer [col. 2, lines 32-35];
 - sending confirmation back to sender confirming change to database [fig. 6, lines 19-20].

In addition, Nelson explicitly teaches:

- A computer disk storage system having a real-time mirrored memory controllers for providing accurate and

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immediate failover reliability [abstract, col. 1, lines 1114] comprising:

- an substantially concurrently data accessing, data retrieving, data mirroring in supporting the computer system failover detection and recovery among remote computer, local computer, and controllers via a network [col. 2, line 65 through col. 3, line 5] as soon as failure occurred [col. 3, lines 50-54].
- a real-time data transferring in the mirrored memory process [col. 4, lines 34-39];
- extracting and copying data from multi-memory controllers via the mirror imaging [col. 13, lines 37-45].

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made first, to realize the Funk's method and apparatus for delivering and modifying information electronically comprising information exchanging and dynamically updating between source and destination (i.e., end user terminals) via a network in a real-time and sending confirmation back to sender confirming change to database as being the transmission is initiated substantially concurrently with a time the change to the file occurs as claimed by Application. This is because the Funk does

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deal with a data file/information updating and exchanging between communication nodes (i.e., sources/destinations) or end user terminal in real-time process, the data/information should be updated in real-time including file modification, verification, confirmation (i.e., substantially concurrently changes of data files) within the data security or protection environment, such as stock and bank data/information updating and exchanging security environment; second, by applying the substantially concurrently data accessing, data retrieving, data mirroring in supporting the computer system failover detection and recovery among remote computer, local computer, and controllers via a network capability as taught by Nelson in conjunction with the Funk's method and apparatus for delivering and modifying information electronically in ensuring data monitored, checked, detected (i.e., intercepted), corrected (i.e., copied, mirrored, etc...) in supporting data protection system.

This modification would have been obvious because a person having ordinary skill in the art would have been motivated to do so to provide the computer data file/information transmission via a networking environment with a mechanism to enhance the data security, data performance, data availability, and data integrity in ordering to providing an optimal data/information

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protection and exchanging system. It is further obvious because by utilizing this approach, data files within the protected system can be realized in latest data/information transmitted among end user communication, real-time data process, and data security protection and execution.

As per claims 32-34:

Funk further teaches:

- updating, translating, and storing data/information within the computer memory system [fig. 1 and 2, col. 3, lines 59-67].
- generating a file, updating a file, converting a file, transmitting a file via a network [col. 2, lines 20-28];
- intercepting change information representing a change made by a process running on a computer system to a file on the computer system [col. 1, lines 62 through col. 2, line 3, col. 2, lines 52-55, col. 3, lines 59-67, and col. 8, lines 50-53];

Funk does not explicitly teach:

- files to be mirrored.

However, Funk does disclose capability of:

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- generating a file, updating a file, converting a file, transmitting a file via a network [col. 2, lines 20-28];

- information modification and editing [col. 6, line 64
 through col. 7, line20];
 - periodically updating the information in the information database and generating a file corresponding to the customer based on information in the customer record and the dynamically updated information [col. 2, lines 36-39].

In addition, Nelson further explicitly teaches:

- data mirroring in supporting the computer system failover detection and recovery [col. 2, line 65 through col. 3, line 5].
- a real-time data transferring in the mirrored memory process [col. 4, lines 34-39];
- extracting and copying data from multi-memory controllers

 via the mirror imaging [col. 13, lines 37-45].

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to apply the data mirroring in supporting the computer system failover detection and recovery capability as taught by Nelson in conjunction with the Funk's method and apparatus for

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delivering and modifying information electronically in supporting data protection system.

This modification would have been obvious because a person having ordinary skill in the art would have been motivated to do so to enhance the computer data file/information transmission via a networking environment. By performing the mirrored files (i.e., copying or duplicating) within the computer system, the system can function and operate without any interruption due to any system failures. This is because the computer system is fully backed up (i.e., data fully mirrored) and readily to perform with high fidelity data performance, data availability, and data integrity among end user communications including end user remotely.

As per claims 35:

Funk further teaches:

- a change is a file and write operation (i.e., information modification and editing) [fig. 5, col. 5, lines 52-66 and col. 6, lines 64 through col. 7, lines 20].

As per claims 36-37:

Funk further teaches:

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- the file is accessed by an application program [col. 3, lines 35-42 and col7, lines 21-26].

As per claims 38-39:

Funk further teaches:

- the change information is transmitted to a second computer and to a remote computer (i.e., end users terminal data transmitted via a LAN and Internet (WAN) environment as well as information exchanging and dynamically updating between source and destination (i.e., end user terminals) via a network in a real-time) [fig. 1, col. 3, lines 59 through col. 4, lines 23].
- user dial-up access for requesting information (i.e., information transmitted to a remote computer) [col. 1, lines 42-53].

In addition, Nelson further teaches:

- a multi-memory data controllers process [col. 13, lines 37-46];
- an substantially concurrently data accessing, data retrieving, data mirroring in supporting the computer system failover detection and recovery among remote computer, local computer, and controllers via a network

[col. 2, line 65 through col. 3, line 5] as soon as failure occurred [col. 3, lines 50-54].

- a real-time data transferring in the mirrored memory process [col. 4, lines 34-39].

As per claim 40:

Claim 40 similar to claim 31. The only minor different is that claim 40 additionally introduced a processor configured to intercept change information.

However, Funk does disclose capability of:

- a system for data protection [abstract, col. 5, lines 29-33 and col. 6, lines 1-11]
 comprising:
 - a database coupled with the processor in supporting the data configuration, data exchanging, data updating, etc...
 [fig. 2, col. 4, lines 25-31].
 - a connectivity among memory, processor, end-user terminals (i.e., remote as well as local) via LAN and Internet (WAN) environment [fig. 1, col. 3, lines 35 through col. 4, lines 25];

Therefore, this claim is also rejected under the same rationale applied against claim 31. In addition, all of the limitations have been noted in the rejection as per claim 31.

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As per claims 41-42:

These new claims are similar to claims 32-34. In addition, Funk also disclosed a new entries in the log file (i.e., new portfolio values for updating) [col. 6, lines 12-24]. Therefore, these claims are also rejected under the same rationale applied against claim 32-34. In addition, all of the limitations have been noted in the rejection as per claim 32-34.

Response to Applicant's remarks

Applicant asserts that Funk in combining with Nelson failed to teach or suggest the following:

a. storing the change information on a log file and transmitting the contents of the log file through a network, wherein the transmission is initiated by the computer system substantially concurrently with a time the change to the file occurs.

Examiner respectfully transverses Applicant's argument as follows:

a. First, Examiner would like to bring Applicant attention to both Funk's method and apparatus for delivering and modifying information electronically [abstract, col. 2, lines 14-27] and

Nelson's computer disk storage system having a real-time mirrored memory controllers for providing accurate and immediate fail-over reliability [abstract, col. 1, lines 11-14]. They both deal with data file backed up, stored, mirrored, and updated via a data communication network transmission. It is clearly that both Funk and Nelson do teach application invention.

Second, it is not true that both Funk and Nelson failed to teach the "storing the change information on a log file and transmitting the contents of the log file through a network, wherein the transmission is initiated by the computer system substantially concurrently with a time the change to the file occurs" as claimed by Applicant. Examiner again would like to bring Applicant attention to Funk's method and apparatus for delivering and modifying information electronically [abstract, col. 2, lines 14-27].

Funk explicitly demonstrated:

- <u>storing the change information on a log</u> file [col. 3, lines 59-67; col. 4, lines 39-52; col. 6, lines 12-22; and col. 9, lines 13-22];
- <u>transmitting the contents of the log file through a</u>

 network (i.e., updating the information in the information database and generating a file corresponding to the

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customer based on information in the customer record and the dynamically updated information) [[fig. 1, col. 2, lines 14-28 and col. 2, lines 36-39];

In addition, Nelson explicitly teaches:

- a real-time data transferring in the mirrored memory process [col. 3, lines 48-54 and col. 4, lines 34-39];
- extracting and copying data from multi-memory controllers via the mirror imaging [col. 13, lines 37-45].

It is clearly that both Funk's method and apparatus for delivering and modifying information electronically [abstract, col. 2, lines 14-27] and Nelson's computer disk storage system having a real-time mirrored memory controllers for providing accurate and immediate fail-over reliability [abstract, col. 1, lines 11-14] do teach application invention.

Third, the combination of Funk and Nelson do perform the "transmission is initiated by the computer system substantially concurrently with a time the change to the file occurs" limitation as claimed by Application. This is because Funk illustrated:

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- information exchanging and dynamically updating between source and destination (i.e., end user terminals) via a network in a real-time [col. 5 lines 43-51];

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- periodically updating the information in the information database and generating a file corresponding to the customer based on information in the customer record and the dynamically updated information [col. 2, lines 36-39]; - means for responsive to the message from the predetermined customer for modifying a customer record responding to the predetermined customer [col. 2, lines 32-35].

In addition, Nelson explicitly teaches capability of "an substantially concurrently data accessing, data retrieving, data mirroring in supporting the computer system failover detection and recovery among remote computer, local computer, and controllers via a network" [col. 2, line 65 through col. 3, line 5] as soon as failure occurred [col. 3, lines 50-54].

This combination would have been obvious because a person having ordinary skill in the art would have been motivated to do so to provide the computer data file/information transmission via a networking environment with a mechanism to enhance the

data security, data performance, data availability, and data integrity in ordering to providing an optimal data/information protection and exchanging system. It is further obvious because by utilizing this approach, data files within the protected system can be realized in latest data/information transmitted among end user communication, real-time data process, and data security protection and execution.

Conclusion

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 6. A shortened statutory period for response to this action is set to expired THREE (3) months, ZERO days from the date of this letter. Failure to respond within the period for response will cause the application to be abandoned. 35 U.S.C. 133.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dieu-Minh Le whose telephone number is (571) 272-3660. The examiner can normally be reached on Monday - Thursday from 8:30 AM to 6:00 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Beausoliel can be reached on (571)272-3645. The Tech Center 2100 phone number is (571) 272-2100.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DIEU-MINH THAI LE PRIMARY EXAMINER ART UNIT 2114

DML 6/22/05